Claims

1. Axial bearing (11) for a banding roll (20) of a banding machine (10) with a shaft (62) which is rigidly attached to a machine frame (16) or chassis, and a rear cover plate (68) which is also rigidly attached, a hub (64) which is freely rotatable on the shaft (62) and a flange (74) which is arranged on the free face (96) of the shaft (62) with a front cover plate (18), characterised in that in the area of the flange (74) at least one bolt (84) protrudes radially from the shaft (62) and engages without protrusion in a guide slot (78) of a bayonet socket (76) which is detachably connected with the flange (74), which guide slot (78) is open at its face and transforms rising into a curved apex (118), turns at a spacing a from the face (80) of the bayonet socket (76) and runs ending blind in the direction of the face (80) of the bayonet socket, a compression spring (88) is arranged clamped between a shaft holder (90) and the hub (64) on the shaft (62) and presses the roll core (70) with the banding roll (20) over the hub (64) in the axial direction onto the flange (74) and together with this forms a fast closure with the centred banding roll (20), where the spacing (a) corresponds to the spacing of the roll core (70) of the banding roll (20), inserted and not yet pressed on, from the rear cover plate (68).

2. Axial bearing (11) according to claim 1, characterised in that two diagonally opposing bolts (84) protrude from the shaft (62) into the guide slot (78).

3. Axial bearing (11) according to claim 1 or 2, characterised in that the guide slots (78) for the bolts (84) run with preferably linear or degressive gradient, transform into a circular arc with an apex (118) and fall preferably linearly.

4. Axial bearing (11) according to any of claims 1 to 3, characterised in that the gradient of the guide slot (78) has an angle α of 30 to 60°, preferably around 45°.

5. Axial bearing (11) according to any of claims 1 to 4, characterised in that the guide slot (78) after the apex has an end position with a spacing of (0.3 to 0.7).a, preferably around =0.5.a, from the inner face (80) of the bayonet socket (76).

6. Axial bearing (11) according to any of claims 1 to 5, characterised in that the guide slots have a catch after reaching the end position.

7. Axial bearing (11) according to any of claims 1 to 6, characterised in that the spacing (t) of the face (124) of the bayonet socket (76) from the free face (122) of the flange (74) is adjustable according to the width (b) of the banding roll (22).

8. Axial bearing (11) according to claim 7, characterised in that arranged in an axial bore (120) starting from the free face (96) of the shaft (62) is arranged a compression spring (100) and a longitudinally displaceable pressure pad (98), where the position of the pressure pad (98) and the associated bayonet socket (76) is adjustable with a bolt (102).

9. Axial bearing (11) according to any of claims 1 to 8, characterised in that the roll core (70) lies with play on the hub (64) and is centred with spring clamps (94).

10. Axial bearing (11) according to any of claims 1 to 9, characterised in that the flange (74) in the area of the inserted roll core (70) has a ring stop (92) which preferably has an inner glide face.

11. Axial bearing (11) according to any of claims 1 to 10, characterised in that outside the roll core (70) and extending in the radial direction is arranged a brass brush (114) as an earth contact, the surface of which can be recessed via a spacer (116).